

1849 to 1898

July 10-93 to Aug 23¹⁸⁹⁴
Apr. 1894

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 1849 to 1898

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

1849

Date,

July 10th 1893

Time of day, 10.10 am ; of tide,

Flood

Locality,

2 1/2 miles S of Innisland

Exact position,

Gay Head S 40° W 1/2 E 9 miles

Cullyhunk S 40° W 1/2 E 14 1/2 miles

Depth,

15 fms

Nature of bottom,

Sand &

Dredging instrument used,

Beam Trawl

Direction of drift,

S 2° E

; distance,

1/4 mile

Temperature of air,

67

therm. No.,

"

of surface water,

64

"

"

at depth of

fathoms,

"

"

at bottom,

"

Density at surface,

80.24.2

temp.,

"

at depth of

fathoms,

"

"

at bottom,

"

Number of salinometer,

Barometer reading,

30.09

State of sky,

clear

Direction of wind,

SW

; force,

2

Rain,

Direction of surface current,

; force,

"

of bottom

"

; force,

Name of vessel,

U.S.F.C. Fish Hawk

Service to which attached,

U.S.F.C.

Name and rank of commanding officer,

Robert Platt

Lieut - U.S.N.

Name and position of observer,

J. M. Lighton
Mate

NOTES RELATING TO STATION NO. 1849

Hake Flounders
Whiting's Sand Dollars
Skate

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

1850

Date,

July 10. 1893

Time of day, 10.34 a.m. ; of tide, Flood

Locality,

4 1/2 miles S of No man's Land

Exact position,

Gay head S. N. O. S. 1/4 E 10 1/2 miles

Depth,

17 fms

Nature of bottom,

H. S. S. S.

Dredging instrument used,

Beam Trawl

Direction of drift,

N E

; distance,

1/4 mile

Temperature of air,

68

therm. No.,

" of surface water,

64

" at depth of fathoms,

" at bottom,

Density at surface,

102.412

temp.,

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading,

30.09

State of sky,

clear

Direction of wind,

SW

; force,

2

Rain,

Direction of surface current,

; force,

" of bottom

"

; force,

Name of vessel,

U.S. Fish Hawk

Service to which attached,

U.S. Fish

Name and rank of commanding officer,

Robert Platt

Name and position of observer,

J. M. Lighter
Master

NOTES RELATING TO STATION NO. 1850

Hake Skate Flounders
Hemmed Crabs Sand dollars

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1851*
 Date, *July 10th 1893*
 Time of day, *10:58 AM* ; of tide, *Flood*
 Locality, *4 1/2 miles SSW of Inman's Land*
 Exact position, *Gay Head to N. 1/4 E 10 1/4 miles*
Cuttyhunk to N. 1/4 W 15 miles
 Depth, *15 fms 3 fms*
 Nature of bottom, *Hard*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *NE* ; distance, *1/4 mile*
 Temperature of air, *67* therm. No.,
 " of surface water, *64* "
 " at depth of fathoms, "
 " at bottom, " "
 Density at surface, *102.412* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.09*
 State of sky, *Clear*
 Direction of wind, *North* ; force, *1*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U.S.F.C. Ste Fish Hawk*
 Service to which attached, *U.S.F.C.*
 Name and rank of commanding officer, *Robert Platt*
Lieut. U.S.N.
 Name and position of observer,
John L. Lighthouse
W. H. Lighthouse

NOTES RELATING TO STATION NO. 1851

Sea Anemone Flounders Snake
Land dollars starfish hermit
Crabs skate

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1852

Date, July 10 1893

Time of day, 11.24 Am ; of tide, Flood

Locality, Gay Head

Exact position, Gay head S 1/40 N x 8 1/2 E 10 miles

Lantry head S 1/40 N 1 1/2 W 14 1/2 miles

Depth, 13 fms 1320

Nature of bottom, Hard

Dredging instrument used, Beam Trawl

Direction of drift, N E ; distance, 1/2 mile

Temperature of air, 67 therm. No.,

" of surface water, 64 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.024.2 temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.09

State of sky, Clear

Direction of wind, North ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U S F C Ste Fish Hawk

Service to which attached, U S F C

Name and rank of commanding officer, Robert Platt

Lieut. U S N

Name and position of observer,

Hulmeblu
Mathu

NOTES RELATING TO STATION NO. 1852

Skate Hake flounders
sand dollars worms trace

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1853

Date, July 10 1893

Time of day, 1.10 PM ; of tide, Flood

Locality, Block Island Sound

Exact position, Gay head Light N $6\frac{1}{4}$ N $5\frac{3}{8}$ mileLighthouse Light N $3\frac{3}{8}$ W 9 miles

Depth, 15 fms

Nature of bottom, Hard

Dredging instrument used, Beam Trawl

Direction of drift, NNE ; distance, $\frac{1}{4}$ mile

Temperature of air, 67 therm. No.,

" of surface water, 64 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.02412 temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.09

State of sky, Clear

Direction of wind, WNW ; force, 1

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, USFV Ste Fish Hawk

Service to which attached, USFV

Name and rank of commanding officer, Robert Platt

Lieut USN

Name and position of observer,

J. M. Johnston
Master

NOTES RELATING TO STATION NO. 1853

Sculpin Wake Whiting flounders
starfish lemmings

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. *1854*
 Date, *July 18 1895*
 Time of day, *1.40 Pm*; of tide, *Flood*
 Locality, *Black Sea Sound*
 Exact position, *Bay of Islands No 48 X E 1/2 E 5 1/8 miles*
Long Point No 48 E 7 1/4 miles
 Depth, *17 fms*
 Nature of bottom, *Mud & S*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *N E*; distance, *1/2 mile*
 Temperature of air, *67* therm. No.,
 " of surface water, *64* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1.024.2* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.09*
 State of sky, *clear*
 Direction of wind, *from*; force, *1*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U.S.F.C. Bt Fish Hawk*
 Service to which attached, *U.S.F.C.*
 Name and rank of commanding officer, *Robert M. Smith*
Lieut. U.S.N.
 Name and position of observer, *John H. Mott*
Mott

NOTES RELATING TO STATION NO. 1852

Starfish Flounders ⁴ Blake
Hermit Crabs

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. *1855*
 Date, *July 10 1893*
 Time of day, *2:40 Pm*; of tide, *Flood*
 Locality, *Block Island Sound*
 Exact position, *Gage Sound No E 1/4 1/4 3 1/2 miles*
cuttyhunk Sound No N 1/2 W 7 1/2 W 5 1/2 "
 Depth, *14 fms*
 Nature of bottom, *Sand*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *North*; distance, *1/4 mile*
 Temperature of air, *67* therm. No.,
 " of surface water, *64* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1.02412* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.09*
 State of sky, *clear*
 Direction of wind, *N-N-W*; force, *2*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U.S. Fish Comm*
 Service to which attached, *U.S. Fish Comm*
 Name and rank of commanding officer, *Robert Platt*
Lieut. U.S.N.
 Name and position of observer, *Paul L. H. H. H.*
Master U.S.N.

NOTES RELATING TO STATION NO. 1955

Spinyfish & Horned Skate
Sea Raven & Hornet Crab
Winkles Sand Crab

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1856

Date. July 10 1893

Time of day 2:56 Pm

of tide. Flood

Locality, Vineyard Sound

Exact position. Gayhead St No SSW 2 7/8 miles

Cuttyhunk St No N 40 1/2 W 5 1/2 "

Depth, 14 fms

Nature of bottom, Hard

Dredging instrument used, Beam Trawl

Direction of drift, N x E

; distance, 1/4 mile

Temperature of air, 66

therm. No.,

"

of surface water, 64

"

"

at depth of fathoms,

"

"

at bottom,

"

Density at surface, 1.024

temp.,

"

at depth of fathoms,

"

"

at bottom,

"

Number of salinometer,

Barometer reading, 30.04

State of sky, Clear

Direction of wind, NW

; force, 2

Rain,

Direction of surface current,

; force,

"

of bottom

"

; force,

Name of vessel, U.S. Fish Hawk

Service to which attached, U.S. Fish

Name and rank of commanding officer, Robert Malt

Name and position of observer, J. M. S. W.

NOTES RELATING TO STATION NO. 1856.

Shorefish. Sea Bream
Shute. Hake. Sand
Gobies. Kelp
Hermit-Crabs. Goose

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1857*
 Date. *July 10 1893*
 Time of day. *3.26 Pm* : of tide. *Flood*
 Locality. *Vineyard Sound*
 Exact position. *Between the two straits 2 1/2 miles
 south of the point of the strait 6 1/2 n*
 Depth, *13 fms*
 Nature of bottom, *Hard*
 Dredging instrument used. *Beam Trawl*
 Direction of drift, *N & E* : distance, *1/4 mile*
 Temperature of air, *66* therm. No.,
 " of surface water, *66* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1.024* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.09*
 State of sky, *Clear*
 Direction of wind, *N & W* ; force, *2*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U.S.F.C. Ste. Fish Hawk*
 Service to which attached, *U.S.F.C.*
 Name and rank of commanding officer, *Robert Platt
 Lieut. U.S.N.*
 Name and position of observer, *J. M. Smith
 Master*

NOTES RELATING TO STATION NO. 1907

Hogabaker. Sand dollars
Skate Starfish Murex
4 rock crabs

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1858*
 Date, *July 10 1893*
 Time of day, *3.50 P.m.*; of tide, *Flood*
 Locality, *Vineyard Sound*
 Exact position, *Cape Ann to N. 5 1/2 W 7/8 3 miles*
South by East to N. 1/4 W 1/4 5 1/2 miles
 Depth, *14 fms 2 ft*
 Nature of bottom, *Hard*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *N. x E*; distance, *1/4 mile*
 Temperature of air, *66* therm. No.,
 " of surface water, *64* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1.024* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.09*
 State of sky, *Clear*
 Direction of wind, *N. x W*; force, *2*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U. S. F. C. Fish Hawk*
 Service to which attached, *U. S. F. C.*
 Name and rank of commanding officer, *Robert Platt*
Lieut. - U. S. N.
 Name and position of observer, *W. B. Smith*

NOTES RELATING TO STATION NO. 1358.

Starfish Skate Hake
Whiting Pectens Sea urchins
Flounders, Nemert-Grubs
Sand Gollers Chell & from

NOTES RELATING TO STATION NO. 1859

Horn shell Spider Crabs
Rock Crab black mud

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1860

Date, *July 12th 1893*

Time of day, *9.40* : of tide, *Flood*

Locality. Buzzard Bay

Exact position: *Atoka Co. 140 SE 1/4 E 5 1/2 miles*

Bill Linn Co. Port + Exp. E 7 7/8 miles

Depth, 8 fms 3/4

Nature of bottom, *Sticky*

Dredging instrument used, *Beam Trawl*

Direction of drift, *NE* ; distance, *1/4 mile*

Temperature of air, 69 therm. No.,

.. of surface water. 65 ..

.. at depth of fathoms. ..

at bottom,

Density at surface, 1028.2 temp.,

“ at depth of fathoms, ”

“ at bottom. ”

Number of salinometer.

Barometer reading. 30.18

State of sky, *cloudy*

Direction of wind, *8 mi* ; force, *2*

Rain.

Direction of surface current, : force,

“ of bottom “ : force,

Name of vessel, *U.S. Fish Hawk*

Service to which attached, 26876

Name and rank of commanding officer, *Robert Platt*

Print 26 5K

Name and position of observer.

of observer.

NOTES RELATING TO STATION NO. 1860

Shell Grass worms
black mud.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. *1861*Date, *July 29, 1893*Time of day, *2.30 PM*; of tide, *1/2 flood*Locality, *Eastern Harbor Me*Exact position, *Long Head 3 1/2 N 1/4 W 1 1/2 miles**Centre Harbors Lt 3 1/2 N 1/4 W 1 3/4 miles*Depth, *18 fathoms*Nature of bottom, *hard*Dredging instrument used, *Beam Trawl*

Direction of drift, ; distance,

Temperature of air, *63* therm. No.," of surface water, *51*" at depth of *18* fathoms, *57*" at bottom, *51*Density at surface, *1025.6* temp., *51°*

" at depth of fathoms,

" at bottom, *1025.4* " *51°*

Number of salinometer,

Barometer reading, *29.94*State of sky, *cloudy & rainy*Direction of wind, *SSW*; force, *4*

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, *U.S.F.C. Ste. Fish Hawk*Service to which attached, *U.S.F.C.*Name and rank of commanding officer, *Robert Platt**Lieut. U.S.N.*

Name and position of observer,

Frederick L. Mather

NOTES RELATING TO STATION NO. 1861.

1 Star fish & Skulpin sponge
Tunicates (Balanus).
Holothurians, (Pentacta)
Star fish (Asterias & Crinella
etc.) 2 Sculpins and
one Ophiidian, Leachmanus
in Menge. Flounders =
(Pleuronectes)

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No.

1862

Date,

July 29, 1893

Time of day,

3 PM

; of tide, $\frac{1}{2}$ flood

Locality,

Eastport harbor

Exact position,

Five Head SSW $\frac{1}{4}$ W $1\frac{1}{8}$ milesFishers Harbor to S $\frac{1}{2}$ W $2\frac{3}{4}$ miles

Depth,

30 fathoms

Nature of bottom,

hard

Dredging instrument used,

Beam Trawl

Direction of drift,

; distance,

Temperature of air,

63

therm. No.,

..

of surface water, 50

..

..

at depth of fathoms,

..

..

at bottom,

..

Density at surface,

1025.2

temp., 50

..

at depth of fathoms,

..

..

at bottom,

..

Number of salinometer,

Barometer reading,

29.94

State of sky,

Cloudy & rainy

Direction of wind,

SSW

; force, 2

Rain,

Direction of surface current,

; force,

..

of bottom

..

; force,

Name of vessel,

U.S. Fish Hawk

Service to which attached,

U.S. Fish

Name and rank of commanding officer,

Robert Platt

Lieut. U.S.N.

Name and position of observer,

C.H. Cleveland
mate of the

NOTES RELATING TO STATION NO. 1863.

Sponges, 3 Sea Rovers 2 Skulpin
Mussell shells, several small
brittle star fish, Barnacles,
Shrimps, Tunicates, Annelids,
1. agnoid

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. *1863*
 Date, *August 9, 1893*
 Time of day, *11 52 AM*; of tide, *Black*
 Locality, *St. Lawrence River*
 Exact position, *about 1/2 mile S. of St. Lawrence, St. E & N 1/2 N 2 miles*
 Depth, *13 fms*
 Nature of bottom, *soft*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *E & E*; distance, *1/4 mile*
 Temperature of air, *70* therm. No.,
 " of surface water, *55*
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1.0241* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.10*
 State of sky, *clear*
 Direction of wind, *South*; force, *2*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U.S. Fish Hawk*
 Service to which attached, *U.S. F.*
 Name and rank of commanding officer, *Robert Platt*
Comdr U.S.N.
 Name and position of observer,
John Smith
Master

NOTES RELATING TO STATION NO. 1963.

Yellow fish star fish mud
One large basket star fish

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1864

Date, Sept 23^d 1893

Time of day, 10³⁶ am ; of tide,

Locality Mouth of Chesapeake Bay

Exact position, Thimble Shoar Light 11 1/2 miles

Cape Henry Lt No 5 8 1/2 miles

Depth, 11, 3

Nature of bottom, Sand

Dredging instrument used, Beam Trawl

Direction of drift, E N E ; distance, 1/2 mile

Temperature of air, 79 therm. No.,

" of surface water, 75 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.014 temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 29.97

State of sky, Clear

Direction of wind, Calm ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. Fish Hawk

Service to which attached, U.S. F. S.

Name and rank of commanding officer, Robert Hall

Ensign H. B. M.

Name and position of observer,

W. L. M. H. M.

NOTES RELATING TO STATION NO. 114 +

Squid Short mackerel Whiting
Crabs Kingfish
Crabs Skate eggs Spider
Crabs Kingfish

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1865*
 Date, *September 20 1873*
 Time of day, *10.55 am*; of tide, *ebb*
 Locality, *Mouth Cobscook Bay*
 Exact position, *Thimble Shoar Light 12 3/8 miles*
Cape Henry Light 5 1/2 miles
 Depth, *10.2*
 Nature of bottom, *Hard*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *E 1/2 S*; distance, *1/4 mile*
 Temperature of air, *80* therm. No.,
 " of surface water, *75* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1.023.6* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *29.96*
 State of sky, *b, c, s*
 Direction of wind, *calm*; force,
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U.S. Fish Hawk*
 Service to which attached, *U.S.*
 Name and rank of commanding officer, *Robert M. Hall*
Lieut. U.S.N.
 Name and position of observer,
John H. Mather

NOTES RELATING TO STATION NO. 1868

1 *Scorpaenopsis* *Scorpaenopsis* *Scorpaenopsis*
Scorpaenopsis *Scorpaenopsis* *Scorpaenopsis*
Scorpaenopsis *Scorpaenopsis* *Scorpaenopsis*
Scorpaenopsis *Scorpaenopsis* *Scorpaenopsis*

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1866*
 Date, *September 23, 1893*
 Time of day, *11:15 Am*; of tide, *ebb*
 Locality, *Long Beach*
 Exact position, *Pointe St No 41 1/2 W 13 1/2 miles*
Cape Henry St No 54 1/2 W 1 1/4 miles
 Depth, *10*
 Nature of bottom, *hard*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *E x S*; distance, *1/4 mile*
 Temperature of air, *81* therm. No.,
 " of surface water, *75* "
 " at depth of fathoms, "
 " at bottom, " "
 Density at surface, temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *10,132*
 Barometer reading, *29.96*
 State of sky, *Bclear*
 Direction of wind, *East*; force, *1*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U.S.F.C. Ste Fish Hawk*
 Service to which attached, *U.S.F.C.*
 Name and rank of commanding officer, *Robert Platt*
Lieut. to S. M.
 Name and position of observer,
William H. Miller
Master to S. M.

NOTES RELATING TO STATION NO. 1806.

Squilla shrimp Trout
Crabs squid Starfish
Hog Chokers Skate eggs
white rainbows

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1867

Date, September 28 1893

Time of day, 11:41 AM ; of tide, ebb

Locality, Mouth Ches. Bay

Exact position, Thimble Shoal N 4 W 1 1/4 miles

Cape Henry Shoal W 7/8 S 2 3/8 miles

Depth, 10 fms

Nature of bottom, Sand

Dredging instrument used, Beam Trawl

Direction of drift, E by S ; distance, 1/4 mile

Temperature of air, 79 therm. No.,

" of surface water, 75.5 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 10138 temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 29.96

State of sky, Clear

Direction of wind, S E ; force, 1

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. Fish Hawk

Service to which attached, U.S. F.C.

Name and rank of commanding officer, Robert Platt

Lieut. U.S.N.

Name and position of observer,

J. L. Loughlin
Master U.S.N.

NOTES RELATING TO STATION NO. 1867

Small Croakers Hop chokers
Shrimp whiting young blue fish
squid about numerous
Star fish skate eel
Young some crabs

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 508

Date, September 23rd 1892

Time of day, 12:30 P.M.; of tide, low

Locality, Chesapeake Bay

Exact position, 4 miles S. of N. 1/4 W. 1/4 Sec. 15

Cape Henry S. 1/4 W. 1/4 Sec. 15 2 1/2 miles

Depth, 3.3

Nature of bottom, sand

Dredging instrument used, beam trawl

Direction of drift, S. 3 E. 1/2 E.; distance, 1/4 mile

Temperature of air, 79 therm. No.,

" of surface water, 75.5 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0156 temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 29.95

State of sky, clear

Direction of wind, S. E. ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U. S. Fish Hawk

Service to which attached, U. S. F. C.

Name and rank of commanding officer, Lt. R. B. Bates

Lieut. R. B. Bates

Name and position of observer,

J. H. Houghton
Master U. S. N.

NOTES RELATING TO STATION NO. 1868.

A few *Crabapple* *Trout*
Small minnows & *Crab*
Clay *Brass* *Water* *eggs*

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1869

Date, September 25 1893

Time of day, 11.40 : of tide,

Locality, Chesapeake Bay

Exact position, Cherry Point Lt NE 4 1/2 S 1 3/8 m

Old Plantation Lt NW 3 3/4 S 1 7/8 miles

Depth, 21 fathoms

Nature of bottom, Shells & coral

Dredging instrument used, Beam Trawl

Direction of drift, Surtk ; distance, 1/4 mile

Temperature of air, 82 therm. No.,

" of surface water, 74 " 50.40

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.018. temp., 74

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 7049

Barometer reading, 30.06

State of sky, Clear

Direction of wind, S W ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. Fish Com. Steamer

Service to which attached, U.S. Fish Com.

Name and rank of commanding officer, J. C. Mott

Name and position of observer, J. C. Mott

NOTES RELATING TO STATION NO. 1869.

A quantity of Coral
Bryozoa - *Porolithothamnion*
Gygonia - Squid
Decapod Skull covered with
coral, a few small *Stomatopoda*
and Jelly Fish, yellow lump
sponge

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1878

Date, Sept 25 1893

Time of day, 12 noon; of tide,

Locality, Chesapeake Bay

Exact position, Chertown ON EXHIBIT-172 mi

Old Point Comfort to SE 1/4 S 1 3/4 miles

Depth, 18 fathoms

Nature of bottom, soft mud & shells

Dredging instrument used, Beam Trawl

Direction of drift, Surt ; distance, 1/4 mile

Temperature of air, 82 therm. No.,

" of surface water, 74

" at depth of fathoms,

" at bottom,

Density at surface, 1.018, temp., 74

" at depth of fathoms,

" at bottom,

Number of salinometer, 7049

Barometer reading, 30.02

State of sky, Clear

Direction of wind, S W ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U S F C 4th - Fish Hawk

Service to which attached, U S F C

Name and rank of commanding officer, R Platt

Name and position of observer, A H Cleveland

Mate, J. H. Platt

NOTES RELATING TO STATION NO. 1870

about 3 bushel of yellow
lump sponge & scallop shells
& coral. Spongia - crabs
stone covered with coral
oyster & hard clam shells,
sea urchins & spider crabs,
Trawl was towed badly
& some of material lost

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1871

Date, Nov 19th 1893

Time of day, 11.45 AM of tide. Ebb

Locality, Chesapeake Bay

Exact position, Smiths Pt Et Hs 7 x 1/2 N

3 1/4 miles
Tricornis Et Hs S W x W 7 miles

Depth, 7 fathoms and 2 ft

Nature of bottom, hard

Dredging instrument used, Beam Trawl

Direction of drift, S W ; distance, 1/8 mile

Temperature of air, 48 therm. No.,

" of surface water, 52

" at depth of fathoms,

" at bottom,

Density at surface, 1014.0 temp., 52

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading, 30.08

State of sky, Cloudy

Direction of wind, N E ; force, 5

Rain,

Direction of surface current, ; force,

" of bottom " : force,

Name of vessel, U. S. S. Fish Hawk

Service to which attached, U. S. N.

Name and rank of commanding officer, R. Platt

Lieut. Zeph

Name and position of observer, C. H. Chapman

Lieut. Zeph

NOTES RELATING TO STATION NO. 1871

Trawl was towed & most of material lost. but recovered about 1/2 pck of Coral sponge, a few crabs & shrimp,

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1872

Date, Nov 19th 1893

Time of day, 12:05 PM of tide, Ebb

Locality, Chesapeake Bay

Exact position, Smiths Pt Light W & N 3/4 N
3 1/4 miles
Manning Pt Light S & W 7 miles

Depth, 8 fathoms

Nature of bottom, hard

Dredging instrument used, Oyster Dredge

Direction of drift, SW ; distance, 1/8 mile

Temperature of air, 48 therm. No.,

" of surface water, 52

" at depth of fathoms,

" at bottom,

Density at surface, 1.014.0 temp., 52

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading, 30.08

State of sky, Cloudy

Direction of wind, NNE ; force, 5

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S.F.C.

Name and rank of commanding officer, R. Platt

Lieut. Regt. Comdr.

Name and position of observer, J. C. C. C. C. C.

Platt Regt.

NOTES RELATING TO STATION NO. 1872

Obtained one Oyster $1\frac{1}{2}$ peak
of Coral Sponge & several small
stones. the largest weighing about
8 lbs

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1873

Date, Apr 19 " 1893

Time of day, 1220 PM : of tide, Ebb

Locality, Chesapeake Bay

Exact position, Smiths Pt. Lt. No. NW x N 7 1/2 W

2 miles
Williams Lt. No. S W x N 1/4 W 7 1/2 miles

Depth, 10 fathoms

Nature of bottom, Stickup

Dredging instrument used, Oyster Dredge

Direction of drift, NW W ; distance, 1/8 mile

Temperature of air, 48 therm. No.,

" of surface water, 52

" at depth of fathoms,

" at bottom,

Density at surface, 1014.0 temp., 52

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading, 30.08

State of sky, Cloudy

Direction of wind, NW E ; force, 5

Rain,

Direction of surface current, S ; force, 2

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S.N.

Name and rank of commanding officer, R. Platt

Lieut. J. W. Combs

Name and position of observer, C. H. Chandler

NOTES RELATING TO STATION NO. 1873

Obtained $\frac{1}{2}$ bushel Coral
Sponge & dead grass, also
three live Oysters with spots
& a few dead Oyster shells

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1874

Date, Apr 19 " 1893

Time of day, 12:45 P.M. of tide, Flood

Locality, Chesapeake Bay

Exact position, Smiths Pt. S. H. 7 N. N. 2 1/2 miles

Wicomico S. H. S. W. 1/2 N. 7 1/16 miles

Depth, 15 fathoms

Nature of bottom, Sticky

Dredging instrument used, Oyster dredge

Direction of drift, N ; distance, 1/8 mile

Temperature of air, 48 therm. No.,

" of surface water, 52

" at depth of fathoms,

" at bottom,

Density at surface, 1013.0

temp., 52

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading, 30.08

State of sky, Cloudy

Direction of wind, N. N. E. ; force, 5

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U. S. Fish Commission

Name and rank of commanding officer, R. R. R. R.

U. S. Fish Commission

Name and position of observer, H. H. H. H.

State of sky

NOTES RELATING TO STATION NO. 1874

Dredge came up full of
black mud and little
dead grass

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. *1875*Date, *March 19th 1894*Time of day, *11:50 A.M.* of tide, *Ebb*Locality, *Lynnhaven Bay*Exact position, *Cape Henry St. No. ESE**Humble Shoal NW*Depth, *4 fath and 1 ft.*Nature of bottom, *hard - sticky*Dredging instrument used, *7 ft Beam Trawl*Direction of drift, *SSE* : distance, *1/8 mile*Temperature of air, *79* therm. No.," of surface water, *52* "

" at depth of fathoms, "

" at bottom, "

Density at surface, *1014.6* temp., *52*

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, *30.06*State of sky, *Clear*Direction of wind, *SSW* ; force, *3*

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, *"Fish Hawk"*Service to which attached, *U.S.F.C.*Name and rank of commanding officer, *R. Platt**St. Lgn*Name and position of observer, *Ch. Cleveland**Master Lgn*

NOTES RELATING TO STATION NO. 1875

a few crabs. 1 small Herring
about a quart of shrimp, and
a few deer sea shells
a little sea grass. Gorgonia
& Bryozoa

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. *1876*Date, *March 19th 1894*Time of day, *12 05 PM*, of tide, *Ebb*Locality, *Lynham Bay*Exact position, *Cape Henry Light S E x E 1/2 E**Thimble Shoal Light N N x W*Depth, *5 fath*Nature of bottom, *soft & sticky*Dredging instrument used, *7 ft Beam Trawl*Direction of drift, *N E* ; distance, *1/8 mile*Temperature of air, *79* therm. No.," of surface water, *52* "

" at depth of fathoms, "

" at bottom, "

Density at surface, *1014.6* temp., *52*

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, *30.06*State of sky, *Clear*Direction of wind, *SSE* ; force, *3*

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, *Fish Hawk*Service to which attached, *U.S.N.*Name and rank of commanding officer, *R. Platt**Lieut. Zeph*Name and position of observer, *W. H. Chandler**Mate Zeph*

NOTES RELATING TO STATION NO. 1876

One young Hake about 6 inches
long - 5 young Flounders
2 Crabs - 3 small Choke about
2 1/2 inches in length
Three kinds of Flounders

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. *1877*
 Date, *March 28th 1894*
 Time of day, *11.15 am* of tide, *Flood*
 Locality, *Chesapeake Bay (mouth)*
 Exact position, *Cape Henry Light bearing*
S 3/8 E (true) dist 1 1/2 miles
 Depth, *11 fathoms*
 Nature of bottom, *Sticky*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, *N 1/2 W*; distance, *1/8 mile*
 Temperature of air, *40* therm. No.,
 " of surface water, *47* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1016.0* temp., *47*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.71*
 State of sky, *Clear*
 Direction of wind, *ESE*; force, *3*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *Fish Hawk*
 Service to which attached, *U. S. F. Commission*
 Name and rank of commanding officer, *A. Platt*
Lieut. U.S.N.
 Name and position of observer, *C. H. Cleveland*
Master U.S.N.

NOTES RELATING TO STATION NO. 1877-

Obtained about one bushel of
yellow lump sponge - 3 Skates

1 2 young Skate averaging
about 6 inches in length.

2 qts of Star fish (small size)

a few spot fish - Shrimps

a few lumps of Coral.

a few Hermit Crabs - (Pipe fish

only) a few young Sea Robin

and Sea bass

1 diminutive Thunder



RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1878

Date, *March 28 1894*Time of day, *11:40 AM* of tide, *Flood*Locality, *Chesapeake Bay (mouth)*Exact position, *Cape Henry Light bearing**S 4/2 N (mag) dist 1 3/4 miles*Depth, *11 fathoms*Nature of bottom, *Stony*Dredging instrument used, *7 ft Beam Trawl*Direction of drift, *N 1/2 E*; distance, *1/2 mile*Temperature of air, *49*

therm. No.,

" of surface water, *47*

" at depth of fathoms,

" at bottom,

Density at surface, *1016.0*temp., *47*

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading, *30.71*State of sky, *Clear*Direction of wind, *ESE*; force, *3*

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, *Fish Hawk*Service to which attached, *U.S.C.*Name and rank of commanding officer, *R. Platt**Dr. W. H. W.*Name and position of observer, *W. H. Cleveland**Wm. W. W.*

NOTES RELATING TO STATION NO. 1878

Obtained about a bushel of
yellow lump sponge. 3 Skates
4 young Hake averaging about
6 inches in length. 2 ^{Small} Hound
1 Spot fish. About 1/2 a peck of
small Star fish. 2 Spider Crabs
and a few Hermit Crabs

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1879*

Date, *March 28th 1894*

Time of day, *11:55 AM*; of tide, *Flood*

Locality, *Chesapeake Bay (mouth)*

Exact position, *Cape Henry Light bearing*

S 1/2 E (true) dist 1 1/4 miles

Depth, *11 fathoms and 5 ft*

Nature of bottom, *hard*

Dredging instrument used, *7 ft Beam Trawl*

Direction of drift, *W 1/2 W*; distance, *1/8 mile*

Temperature of air, *46* therm. No.,

" of surface water, *47* "

" at depth of fathoms, "

" at bottom, "

Density at surface, *1016.0* temp., *47*

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, *30.71*

State of sky, *Clear*

Direction of wind, *ESE*; force, *3*

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, *Fish Hawk*

Service to which attached, *USF*

Name and rank of commanding officer, *R. Platt*

At Refr

Name and position of observer, *C. H. Cleveland*

Master Refr

NOTES RELATING TO STATION NO. 1879

Obtained $\frac{1}{2}$ bushel of yellow
lump sponge. a number of Pipe
fish - young Hake - young Tautog
a few shrimp & star fish - also
Hermit Crabs - 1 Conch

✓

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1880*
 Date, *March 28th 1894*
 Time of day, *1230 PM*; of tide, *Flood*
 Locality, *Chesapeake Bay*
 Exact position, *Cape Henry Light bearing*
SE x E 3/4 E (mag), dist 2 1/4 miles
 Depth, *6 fathoms*
 Nature of bottom, *Chert*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, *drift*; distance, *1/2 mile*
 Temperature of air, *46*, therm. No.,
 " of surface water, *46*
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1015.0*, temp., *46*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer.
 Barometer reading, *30.71*
 State of sky, *Clear*
 Direction of wind, *ESE*; force, *3*
 Rain.
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *Fish Hawk*
 Service to which attached, *U. S. F. C.*
 Name and rank of commanding officer, *R. Platt*
St. John Comdr
 Name and position of observer, *W. H. Allen*
Master

NOTES RELATING TO STATION NO. 188V

Obtained 3 Skates a young Skate about 6 inches long.
Shrimp, Hermit Crab, Silver Side
Pipe fish

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1881*
 Date, *Mar 28 - 1894*
 Time of day, *12 50 PM*; of tide, *Flood*
 Locality, *Lynn Haven Bay*
 Exact position *Cape Henry Lt. Ho. bearing*
SSE 1/4 E dist 3 1/4 miles
 Depth, *4 fathoms and 3 feet*
 Nature of bottom, *hard*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, : distance.
 Temperature of air, *47* therm. No.,
 " of surface water, *48* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1014.6* temp., *48*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.68*
 State of sky, *Clear*
 Direction of wind, *SESE* ; force, *4*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *Fish Hawk*
 Service to which attached, *U.S. Fish Commission*
 Name and rank of commanding officer, *R. Platt*
Lieut. Regt. Comdr.
 Name and position of observer, *C. H. [unclear]*
Master Regt.

NOTES RELATING TO STATION NO. 1881

Obtained - 2 crabs - 4 shrimp
qb of shrimp - 6 small Hake
a few silver sides - Star fish
1 denomination flounder

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1882*

Date, *April 24 - 1894*

Time of day, *10:15 am* of tide, *1/2 Flood*

Locality, *Vicinity Thimble Shoal Pt. Lower Ches. B. Va.*

Exact position, *Back of Thimble Shoal Pt. 17-03*

Thimble Shoal N. to Old Pt Comfort Pt. 48-00

Depth, *6 - 1*

Nature of bottom, *Mud*

Dredging instrument used, *Beam Trawl*

Direction of drift, ; distance.

Temperature of air, *52* therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading.

State of sky, *Clear*

Direction of wind, ; force,

Rain,

Direction of surface current, : force,

" of bottom " : force,

Name of vessel, *Fish Hawk*

Service to which attached, *U.S.F. Commission*

Name and rank of commanding officer, *R Platt*

Lieut USN Commanding

Name and position of observer, *W E McKeight*

NOTES RELATING TO STATION NO. 1882

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1883

Date, Apr. 21 '92

Time of day, 10:45 a.m. of tide, $\frac{1}{2}$ Flood

Locality, Silver Creek Bay

Exact position, Ecks 2.4. Lake Thimble Shoal Lt No 21-53

Thimble Shoal Lt No to Old Pt. Comfort Lt. No 27-52

Depth, 5-7

Nature of bottom, Muddy

Dredging instrument used, Trawl

Direction of drift, ; distance,

Temperature of air, 57 therm. No.,

" of surface water.

" at depth of fathoms,

" at bottom,

Density at surface, temp.,

" at depth of fathoms,

" at bottom.

Number of salinometer.

Barometer reading, 30.0

State of sky,

Direction of wind, NW ; force, 7

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S.F.C.

Name and rank of commanding officer, Robt Platt

Lieut. E. J. Bond

Name and position of observer, W. E. Walcott

NOTES RELATING TO STATION NO. 1883

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1584*
 Date, *Aug 18 - 1894*
 Time of day, *2 PM* ; of tide, *Flood*
 Locality, *Chilora Bank*
 Exact position, *E S E 1/8 before Sandy Hook*
At Ship distance 12 miles
 Depth, *14 fathoms*
 Nature of bottom, *gravel - coarse*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, ; distance,
 Temperature of air, *75* therm. No.,
 " of surface water, *71 1/2*
 " at depth of fathoms,
 " at bottom,
 Density at surface, *1023.0* temp., *71 1/2*
 " at depth of fathoms,
 " at bottom,
 Number of salinometer, *7052*
 Barometer reading, *30.02*
 State of sky, *Cloudy*
 Direction of wind, *SSW* ; force, *4*
 Rain,
 Direction of surface current, ; force,
 " of bottom " : force,
 Name of vessel, *Fish Hawk*
 Service to which attached, *USFC*
 Name and rank of commanding officer, *Robt Platt*
Lieut. U.S.N. Comdr.
 Name and position of observer, *C. H. Cleveland*
Master U.S.N.

NOTES RELATING TO STATION NO. 1884-

obtained about a basket of material, consisting of gravel dead shells. Pebbles & stones small crabs - 2 live Pectons a few star fish & hermit crabs & Skitter Eggs -

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1885

Date Aug 18th 1894

Time of day, 2.30 PM, of tide,

Locality, Cholera Bank

Exact position, E S E 1/2 S from Long Hook

At ship distance 12 miles

Depth, 12 1/2 fathoms

Nature of bottom, gy sand & blue specks

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air, 75 therm. No.,

" of surface water, 71 1/2

" at depth of fathoms,

" at bottom, 65

Density at surface, 1.023 temp., 71 1/2

" at depth of fathoms,

" at bottom,

Number of salinometer, 7052

Barometer reading, 30.02

State of sky, Cloudy

Direction of wind, S S W ; force, 4

Rain.

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U S F C

Name and rank of commanding officer, Robt. Platt

Lieut. U S F C

Name and position of observer, J H Chantler

Mate U S F C

NOTES RELATING TO STATION NO. 1885

Obtained about a bushel of material. Consisting of one great Clam shell, yellow sponge, 1 small Hake, Crabs - 2 Skates a few Star fish, Sand dollars Hermit Crabs, a few small stones, 1 small Hake about 6 inches in length, a few Pipe fish and dead mussel shells, also for Shrimp

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. *1886*
 Date, *Aug 18th 1894*
 Time of day, *2.50 PM* of tide,
 Locality, *Chelsea Bank*
 Exact position, *E S E 1/2 S from Sandy Hook*
At ship's distance 12 miles
 Depth, *14 fathoms*
 Nature of bottom, *gr Sand & gravel*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, _____; distance,
 Temperature of air, *75* therm. No.,
 " of surface water, *71 1/2*
 " at depth of _____ fathoms, "
 " at bottom, *67* "
 Density at surface, *1.023.0* temp., *71 1/2*
 " at depth of _____ fathoms, "
 " at bottom, "
 Number of salinometer, *7052*,
 Barometer reading, *30.02*
 State of sky, *Cloudy*
 Direction of wind, *SSW*; force, *4*
 Rain,
 Direction of surface current, _____; force,
 " of bottom " _____; force,
 Name of vessel, *Fish Hawk*
 Service to which attached, *U.S.F.C.*
 Name and rank of commanding officer, *Robt Platt*
Lieut. Egan Conroy
 Name and position of observer, *C. H. Chasland*
Master Egan

NOTES RELATING TO STATION NO. 1886.

Obtained about 3/4 bushel
of material consisting of
Star fish, Sand dollars
dead clam shells, 1 flounder
about 1 ft in length - several
Hermit & Spider crabs

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. *1887*
 Date, *Aug 18th 1894*
 Time of day, *3.25 PM* of tide, *Flood*
 Locality, *Cholera Bank*
 Exact position, *E S E 1/4 S from Sandy Hook*
At ship distance 12 miles
 Depth, *13 1/2 fathoms*
 Nature of bottom, *green & gravel*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, _____ ; distance, _____
 Temperature of air, *75* therm. No., _____
 " of surface water, *71* "
 " at depth of _____ fathoms, "
 " at bottom, *66 1/2* "
 Density at surface, *1.023.0* temp., *71*
 " at depth of _____ fathoms, "
 " at bottom, _____
 Number of salinometer, *7052*
 Barometer reading, *30.02*
 State of sky, *Cloudy*
 Direction of wind, *SSW* ; force, *4*
 Rain, _____
 Direction of surface current, _____ ; force, _____
 " of bottom " ; force, _____
 Name of vessel, *Fish Hawk*
 Service to which attached, *U.S. Fish Com.*
 Name and rank of commanding officer, *R. H. Platt*
Lieut. U.S. Comdr.
 Name and position of observer, *A. H. Cleaveland*
Mate U.S. Fish Hawk

NOTES RELATING TO STATION NO. 1887

Obtained about 2 bushels of
Ostracods consisting of 3 rocks
weighing about 50 lbs each

Trawl over towed a considerable
quantity of star fish were
caught - 2 Common / small
Flounder - 1 Hake about 6 inches
in length - a few Hermit crabs
and dead Clam shells

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1888

Date, Aug 23rd 1894

Time of day, 11 A M; of tide, 666

Locality, Long Island Sound

Exact position, Plum Island Light 41° 55'

Long 73° 45' 34" W

Depth, 17 1/2 fathoms

Nature of bottom, Gr Sand & pebbles

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air, 69 therm. No.,

" of surface water, 70

" at depth of fathoms,

" at bottom, 69 1/2

Density at surface, 1.022 temp., 70

" at depth of fathoms,

" at bottom,

Number of salinometer, 7052

Barometer reading, 30.11

State of sky, Clear

Direction of wind, WSW ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S. Fish Com

Name and rank of commanding officer, Lt. R. B. Smith

Lieut. R. B. Smith

Name and position of observer, C. H. Cleveland

Mate R. B. Smith

NOTES RELATING TO STATION NO. 1888

Obtained about $\frac{1}{2}$ basket of material
consisting of yellow lump sponge
Kelp - Coral and a few small
shells, one of the latter fragments
of Trawl over bottom

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. *1889*
 Date, *Aug 23 1894*
 Time of day, *11.25 AM* of tide, *Ebb*
 Locality, *Long Island Sound*
 Exact position, *Long beach Bar Pt. Plum. Lat. 79° 06'*
Plum Island Pt. Lynce Pt. Lat. 96° 54'
 Depth, *17 fms*
 Nature of bottom, *Gy S & Pebbles*
 Dredging instrument used, *Sledge*
 Direction of drift, ; distance,
 Temperature of air, *69* therm. No.,
 " of surface water, *70*
 " at depth of fathoms,
 " at bottom,
 Density at surface, *1022.0* temp., *70*
 " at depth of fathoms,
 " at bottom,
 Number of salinometer, *7052*
 Barometer reading, *30.11*
 State of sky, *Clear*
 Direction of wind, *W S W* ; force, *3*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *Irish Hawk*
 Service to which attached, *U.S.N.*
 Name and rank of commanding officer, *Robt Platt*
Lieut. Rgn
 Name and position of observer, *C.H. Chapman*
Mate Rgn

NOTES RELATING TO STATION NO. 1887

Obtained about 1/2 bushel of material
consisting of kelp - small crabs
and wrinkles - Skate eggs
Pebbles - some dollars - coral

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. *1890*
 Date, *Aug 23rd 1894*
 Time of day, *11.40 am* ; of tide, *Ebb*
 Locality, *Long Island Sound*
 Exact position, *Long Beach Bow Lt. Plum Island 77° 00'*
Plum Island Light Pt. Lt. 98° 47'
 Depth, *18 fathoms*
 Nature of bottom, *gr sand & shells*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, _____ ; distance, _____
 Temperature of air, *74* therm. No., _____
 " of surface water, *70* _____
 " at depth of _____ fathoms, _____
 " at bottom, *69 1/2* _____
 Density at surface, *1022* temp., *70*
 " at depth of _____ fathoms, _____
 " at bottom, _____
 Number of salinometer, *7062*
 Barometer reading, *30.11*
 State of sky, *Clear*
 Direction of wind, *W 5 W* ; force, *23*
 Rain, _____
 Direction of surface current, _____ ; force, _____
 " of bottom " _____ ; force, _____
 Name of vessel, *Fish Hawk*
 Service to which attached, *U.S. Fish Com.*
 Name and rank of commanding officer, *Wm. H. Hutton*
Chief Eng.
 Name and position of observer, *C. H. Cleveland*
Master U.S.N.

99-14 R

58-16 L

NOTES RELATING TO STATION NO. 1890

Obtained about a peck of material
consisting of yellow string sponges
a few *Skenea* & *flavida* - Keep
1 young scap. - *Spicer* scap.
a few young sea robins.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1891

Date, Aug 23 1894

Time of day, 12 Noon ; of tide, Ebb

Locality, Long Island Sound

Exact position, Long Beach Bar Light House Is. S. 77° 00'

Long Is. Lt. Haystack Pt. Lt. 95° 47'

Depth, 18 fathoms

Nature of bottom, green mud & shells

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air, 74 therm. No.,

" of surface water, 70 "

" at depth of fathoms, "

" at bottom, 69 "

Density at surface, 1022.0 temp., 70

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 252

Barometer reading, 30.11

State of sky, Clear

Direction of wind, NSE ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, USFC

Name and rank of commanding officer, Robt Platt

Lieut. U.S.N.

Name and position of observer, C. H. Chandler

Master U.S.N.

NOTES RELATING TO STATION NO. 1891

Obtained about 1/2 basket of
material. Consisting of yellow
sponge. a few small squid
small star fish. Dead mussel
shells. Spider Crabs. young shrimp
1 Butter fish. Skate Eggs
Hermit Crabs.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1892

Date, Aug 23 1894

Time of day, 12.20 PM; of tide, Flood

Locality, Long Island Sound

Exact position, Long beach, North of Plum Pt. 76 1/2'

Plum Pt. Light Pt. 102° 02'

Depth, 19 1/2 fathoms

Nature of bottom, gr sand & shells

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air, 75

therm. No.,

" of surface water, 70

" at depth of fathoms,

" at bottom, 69 1/2

Density at surface, 1022.6

temp., 70

" at depth of fathoms,

" at bottom,

Number of salinometer, 7052

Barometer reading, 30.11

State of sky, Clear

Direction of wind, N. E. W. ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U. S. F. C.

Name and rank of commanding officer, Lt. R. W. Allen

Lt. Allen

Name and position of observer, A. H. Cleveland

Master Allen

NOTES RELATING TO STATION NO. 1892

Obtained about $\frac{1}{2}$ basket of material, consisting of small squid, Spider crabs, yellow finger sponge. Trawl was torn and some of material lost

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. *1893*
 Date, *Aug 23^d 1894*
 Time of day, *1.35 PM* of tide, *Flood*
 Locality, *Long Island Sound*
 Exact position, *Plum Point Harbor Lt 40° 50'*
Greenwich Baybrook Lt 78° 15'
 Depth, *38 fathoms*
 Nature of bottom, *gr Sand & blk specks*
 Dredging instrument used, *Dredge*
 Direction of drift, ; distance,
 Temperature of air, *80* therm. No.,
 " of surface water, *69*
 " at depth of fathoms,
 " at bottom, *70*
 Density at surface, *1022* temp., *69*
 " at depth of fathoms,
 " at bottom,
 Number of salinometer, *7052*
 Barometer reading, *30.11*
 State of sky, *Clear*
 Direction of wind, *NW*; force, *3*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *Fish Hawk*
 service to which attached, *USFC*
 Name and rank of commanding officer, *Robt Platt*
Lt USN
 Name and position of observer, *Chas. H. Chandler*
Master USN

NOTES RELATING TO STATION NO. 1873

obtained about a bushel of
sand and gravel a few
sand dollar shells

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. *1894*
 Date, *Aug 23rd 1894*
 Time of day, *1.50 PM*; of tide, *Flood*
 Locality, *Long Island Sound*
 Exact position, *Plum Gut Beacon N.P. 35-42.45*
Plum Island Light New London Lt 26° 10'
 Depth, *53 fathoms*
 Nature of bottom, *M. S. or clay*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, *West*; distance, *about 1 mile*
 Temperature of air, *78* therm. No.,
 " of surface water, *69*
 " at depth of fathoms, ..
 " at bottom, *67'* ..
 Density at surface, *1022.0* temp., *69*
 " at depth of fathoms, ..
 " at bottom, ..
 Number of salinometer, *7052*
 Barometer reading, *30.10*
 State of sky, *Clear*
 Direction of wind, *West*; force, *3*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *Fish Hawk*
 Service to which attached, *U.S. F.C.*
 Name and rank of commanding officer, *Robert Platt*
Lieut. U.S.N.
 Name and position of observer, *C. H. Cleveland*
Master U.S.N.

NOTES RELATING TO STATION NO. 1894

Obtained about one basket of
material consisting of seals
Skates. Filloids. Hake
Sea Robins. Monkies. Squid

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1895*
 Date, *Aug 23rd 1894*
 Time of day, *2,30 PM*; of tide, *Flood*
 Locality, *Long Island Sound*
 Exact position, *Plain & Co's Lagoon Lt 48° 20'*
New London & Saybrook Lt 74, 55°
 Depth, *22 fathoms*
 Nature of bottom, *gr sand & pebbles*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, ; distance,
 Temperature of air, *78* therm. No.,
 " of surface water, *69* "
 " at depth of fathoms, "
 " at bottom, *70* "
 Density at surface, *1022.0* temp., *69*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *7052*
 Barometer reading, *30.10*
 State of sky, *Clear*
 Direction of wind, *West*; force, *3*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *"Fish Hawk"*
 Service to which attached, *U.S. Fish Commission*
 Name and rank of commanding officer, *Robert Platt*
Lieut. U.S.N.
 Name and position of observer, *C. H. Cleveland*
Master U.S.N.

NOTES RELATING TO STATION NO. 1895

Obtained about $\frac{1}{2}$ bushel of
material consisting of Crabs
Conchs. Trinkets. Flounders
Skates. Shells. Sand dollars
Hermit crabs

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. *1896*
 Date, *Aug 23" 1894*
 Time of day, *3 PM* ; of tide, *A low*
 Locality, *Long Island Sound*
 Exact position, *Run I Light Gun 20° 26'*
Light Gun & Lynce Pt 109° 35'
 Depth, *19 fathoms*
 Nature of bottom, *gr sand & blk specks*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, ; distance,
 Temperature of air, *79* therm. No..
 " of surface water, *69* ..
 " at depth of fathoms, ..
 " at bottom, *69* ..
 Density at surface, *1022* temp., *69*
 " at depth of fathoms, ..
 " at bottom, ..
 Number of salinometer, *7052*
 Barometer reading, *3010*
 State of sky, *Clear*
 Direction of wind, *West* ; force, *3*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *Fish Hawk*
 Service to which attached, *U.S. Commission*
 Name and rank of commanding officer, *Robt Platt*
Lieut. Zeph
 Name and position of observer, *C.H. Cleveland*
Master Zeph

NOTES RELATING TO STATION NO. 1896

Obtained about 1/2 bushel of
material consisting of Skates
Hundred - Seed Shells - Crabs

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1897*
 Date, *Aug 23rd 1894*
 Time of day, *3.15 PM*; of tide, *Flood*
 Locality, *Long Island Sound*
 Exact position, *Gardner Pt Plum I 23° 43'*
Plum I & Lynce Pt 108° 03'
 Depth, *19 fathoms and 4 ft*
 Nature of bottom, *hard*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, ; distance,
 Temperature of air, *79* therm. No.,
 " of surface water, *69* "
 " at depth of fathoms, "
 " at bottom, *79* "
 Density at surface, *1.022* temp., *69*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *7052*
 Barometer reading, *30.10*
 State of sky, *Clear*
 Direction of wind, *West* ; force, *4*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *"Fish Hawk"*
 Service to which attached, *USF 7 C*
 Name and rank of commanding officer, *Robt Platt*
Dr. Lefr
 Name and position of observer, *Off Clearman*
Master Lefr
R 23.10 108° 03'

NOTES RELATING TO STATION NO. 1897

obtained about $\frac{1}{2}$ bushel of
material. Consisting of small
Hundred Squid Eggs - sea
shells - yellow thing sponge
Trawl got caught, supposed
Rock

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1898*
 Date, *Aug 23rd 1894*
 Time of day, *3.30 PM*; of tide, *High*
 Locality, *Long Island Sound*
 Exact position, *Gardner's Pt Plum I 23° 00'*
Plum Island to Lynde Pt 109° 25'
 Depth, *19 fathoms*
 Nature of bottom, *hard*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, ; distance,
 Temperature of air, *79* therm. No.,
 " of surface water, *69* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1022* temp., *69*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *7052*
 Barometer reading, *30.10*
 State of sky, *Clear*
 Direction of wind, *W* ; force, *4*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *Fish Hawk*
 Service to which attached, *USF*
 Name and rank of commanding officer, *Robt Platt*
Lt U.S.N.
 Name and position of observer, *Chas. Cleveland*
Master U.S.N.

NOTES RELATING TO STATION NO. 1898

Obtained about $\frac{1}{2}$ basket of
material consisting of Skates
crabs Dead Shells - yellow
thing sponges - Hermit crabs